

INTERNATIONAL SEARCH REPORT

International Application No

GB2004/003397

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A01N25/28 A01N63/02 A01N43/90 A23L3/3472 A23L3/3544
A23B5/14 A23B5/16 A23B4/20 A23B4/22 A21D2/24
B01J13/08 B01J13/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A01N A23L A23B A21D B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, COMPENDEX, BIOSIS, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| P, X | <p>DATABASE MEDLINE 'Online! US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; May 2004 (2004-05), WERE LILIAN M ET AL: "Encapsulation of nisin and lysozyme in liposomes enhances efficacy against Listeria monocytogenes." XP002301926 Database accession no. NLM15151228 abstract & JOURNAL OF FOOD PROTECTION. MAY 2004, vol. 67, no. 5, May 2004 (2004-05), pages 922-927, ISSN: 0362-028X</p> <p style="text-align: center;">----- -/--</p> | 1-61 |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

21 October 2004

Date of mailing of the international search report

17/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Molina de Alba, J

INTERNATIONAL SEARCH REPORT

tional Application No

.../GB2004/003397

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | APPLIED AND ENVIRONMENTAL MICROBIOLOGY, August 2002 (2002-08), pages 3683-3690, XP002301922 cited in the application abstract | 1-61 |
| X | INTERNATIONAL DAIRY JOURNAL, vol. 86, no. 13, July 2003 (2003-07), pages 325-336, XP002301923 cited in the application abstract page 329, column 1, paragraph 3 - column 2, paragraph 1 page 330 - page 331 page 334, column 2, paragraph 2 | 1-61 |
| X | 2000, CONTROLLED RELEASE SOCIETY, INC , PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON CONTROLLED RELEASE OF BIOACTIVE MATERIALS 27 , XP009038419 page 1373, column 1, paragraph 1 page 1374, column 2, paragraph 4 - paragraph 6 | 1-61 |
| X | DATABASE BIOSIS 'Online! BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 2003, LARIDI R ET AL: "Liposome encapsulated nisin Z: Optimization, stability and release during milk fermentation." XP002301927 Database accession no. PREV200300195252 abstract & INTERNATIONAL DAIRY JOURNAL, vol. 13, no. 4, 2003, pages 325-336, ISSN: 0958-6946 | 1-61 |
| X | DATABASE CAPLUS CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; Pharmaceutical liposomes containing polyene macr 1991, XP002301928 Database accession no. 115:263475 abstract | 1-61 |
| X | INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY, vol. 18, 1993, pages 127-138, XP002301924 cited in the application abstract | 1-61 |
| X | WO 97/47289 A (E L MANAGEMENT CORP) 18 December 1997 (1997-12-18) abstract | 1-61 |
| | -/-- | |

INTERNATIONAL SEARCH REPORT

ional Application No

...GB2004/003397

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | <p>INVESTIGATIVE OPHTHALMOLOGY AND VISUAL SCIENCE, vol. 20, no. 3suppl, 1981, page 109, XP009038450 page 109, column 1</p> | 1-61 |
| X | <p>JOURNAL OF DAIRY SCIENCE, vol. 84, no. 1 suppl, 2001, page 382, XP002301925 page 382, column 1</p> | 1-61 |

INTERNATIONAL SEARCH REPORT

International Application No

.../GB2004/003397

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|----------------------------|----------------------------|
| WO 9747289 | A | 18-12-1997 | US 5811114 A 22-09-1998 |
| | | | AU 3379497 A 07-01-1998 |
| | | | CA 2257850 A1 18-12-1997 |
| | | | EP 0952852 A1 03-11-1999 |
| | | | JP 2000512294 T 19-09-2000 |
| | | | WO 9747289 A1 18-12-1997 |
| | | | ZA 9705204 A 31-12-1997 |
